

# Data Lifecycle is not a Cycle, but a Plane!

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# Data Lifecycle

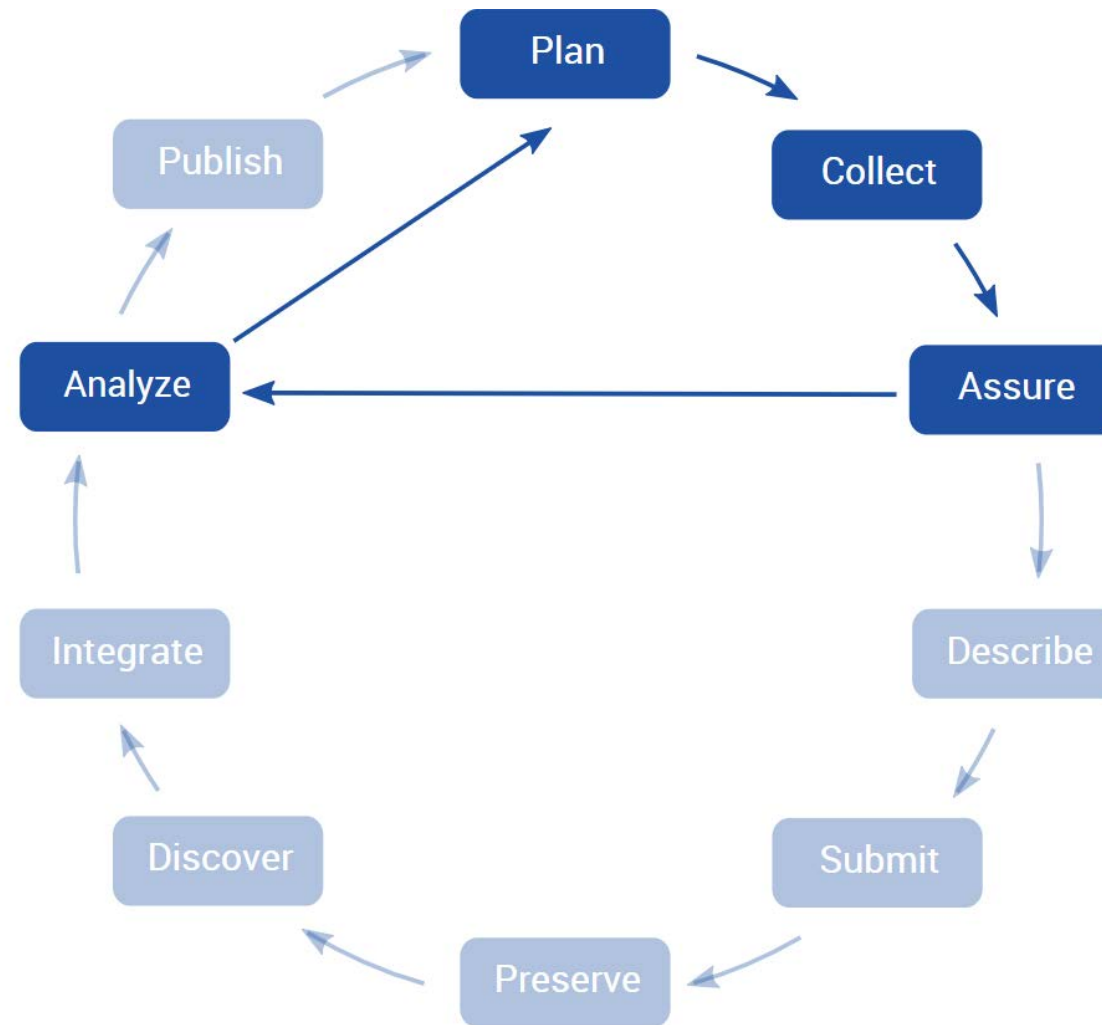
- A methodological way of managing research projects
- A support system for assurance of quality, time, and budget

# DataOne Data Lifecycle



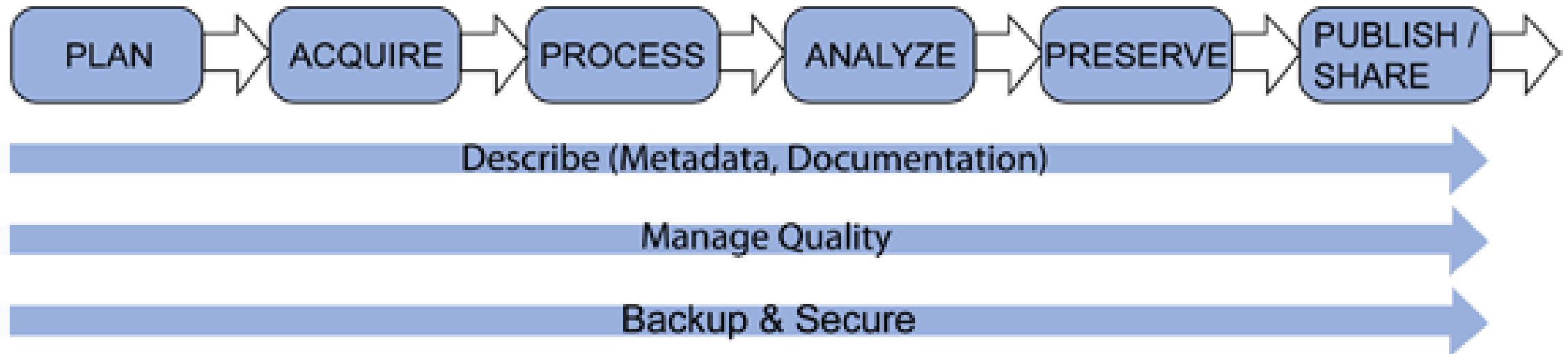
<https://www.dataone.org/data-lifecycle>

# GFBio Data Lifecycle



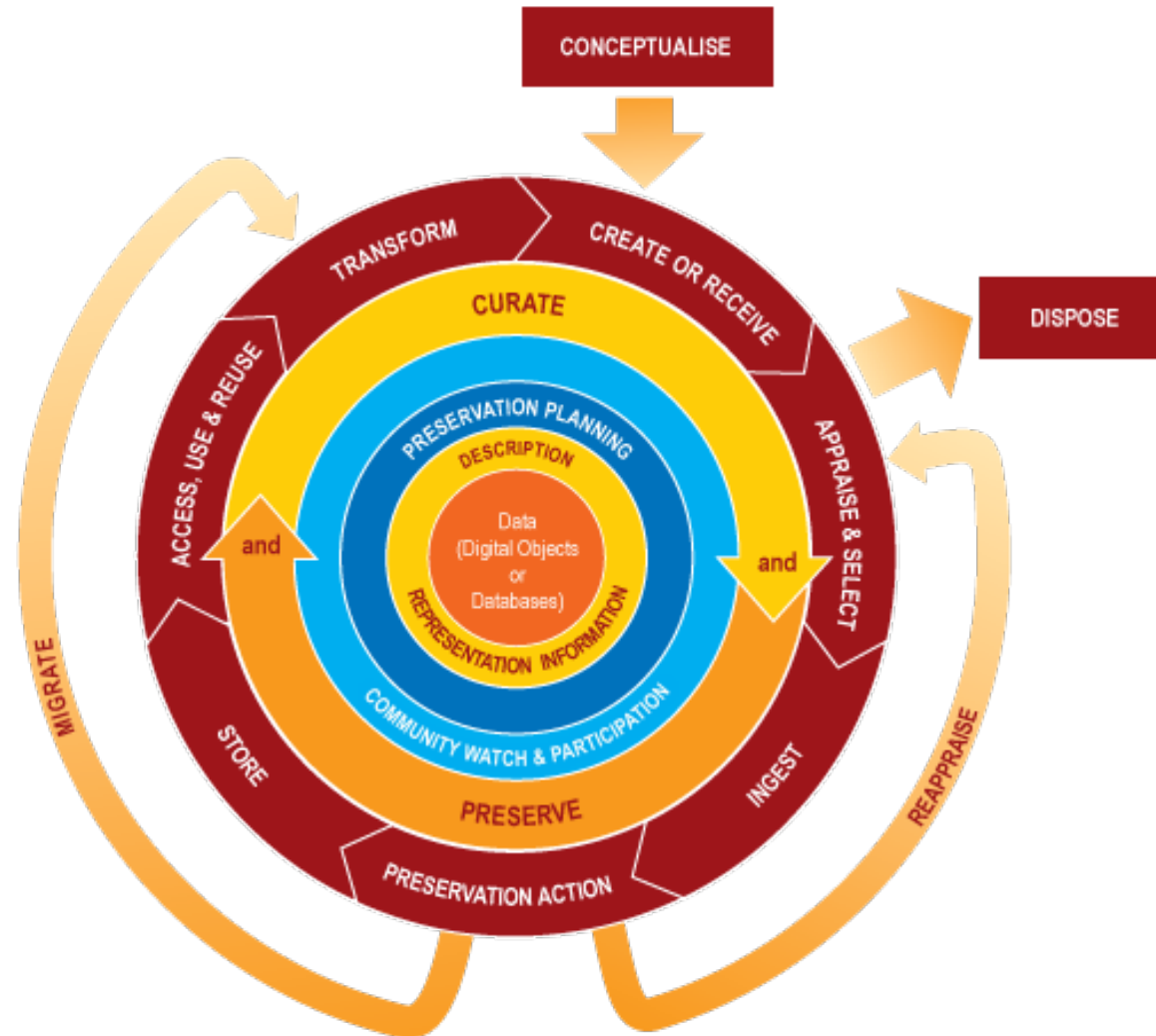
<https://www.gfbio.org/training/materials/data-lifecycle>

# USGS Data Lifecycle



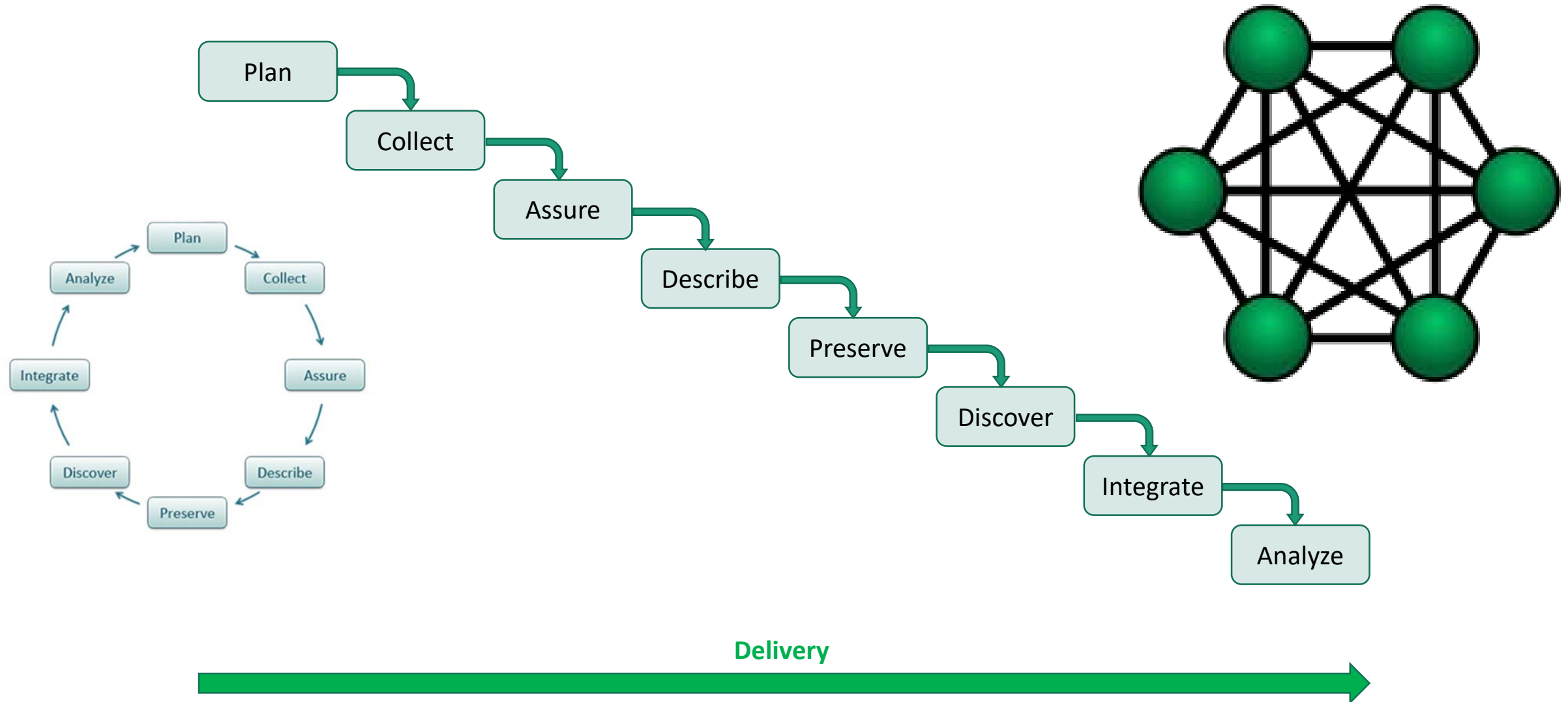
<https://www2.usgs.gov/datamanagement/why-dm/lifecycleoverview.php>

# DCC Curation Lifecycle Model



<http://www.dcc.ac.uk/resources/curation-lifecycle-model>

# A Waterfall View of the Lifecycle



# Let's Disassemble the Lifecycle





# And board them on a Plane!

Plan

Collect

Assure

Describe

Preserve

Discover

Integrate

Analyze

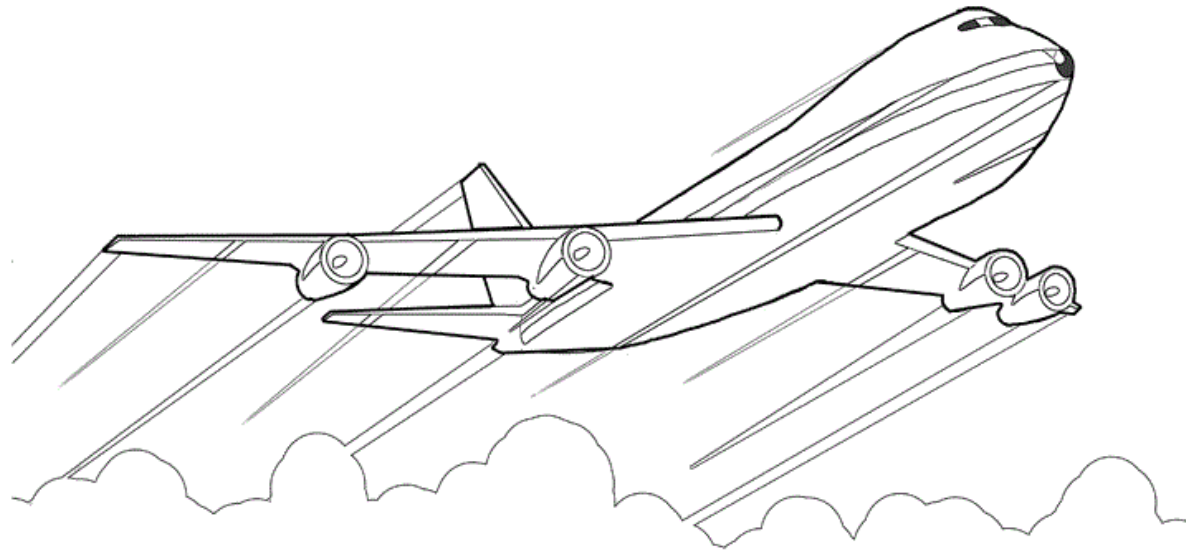
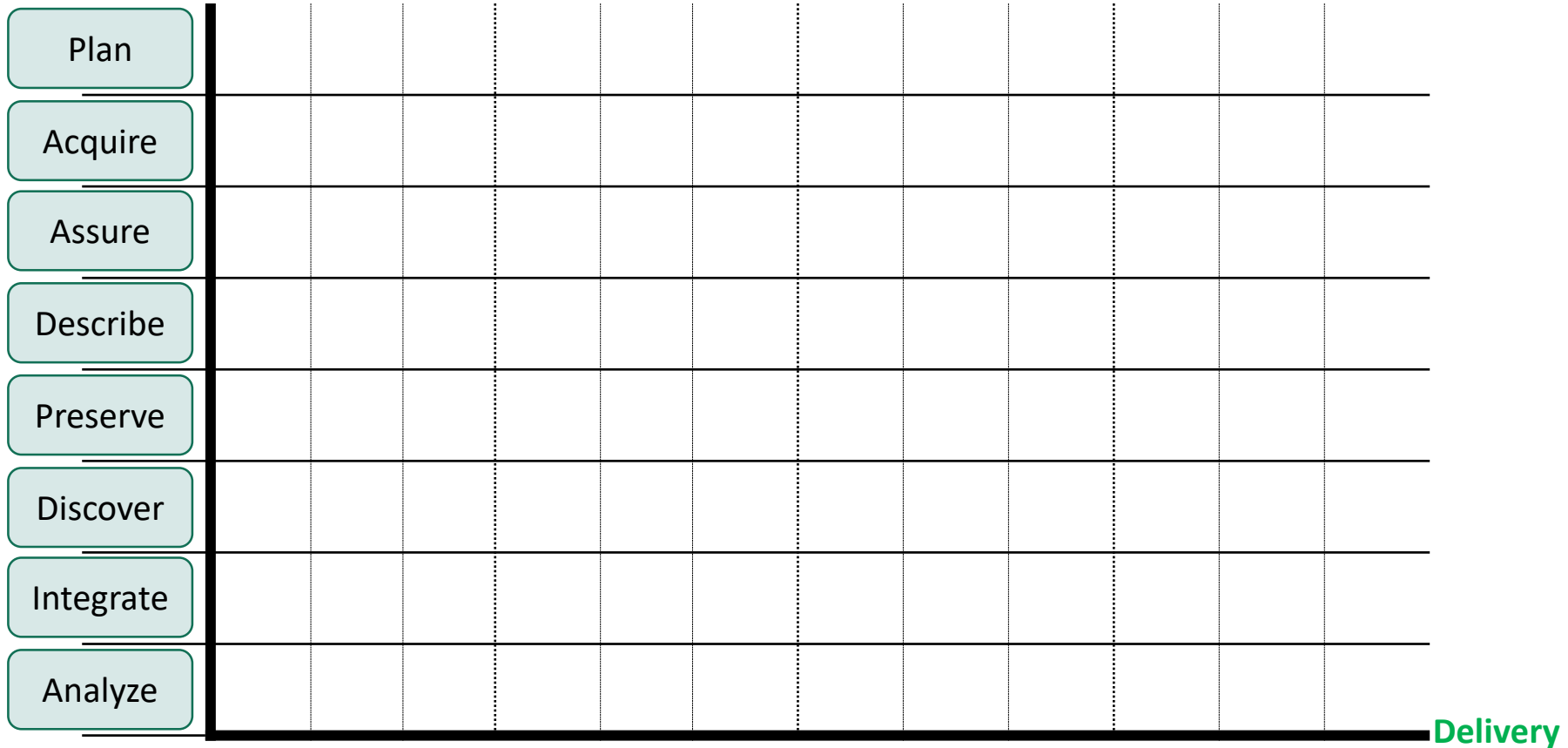


Image by: [clipartxtras.com](https://clipartxtras.com)

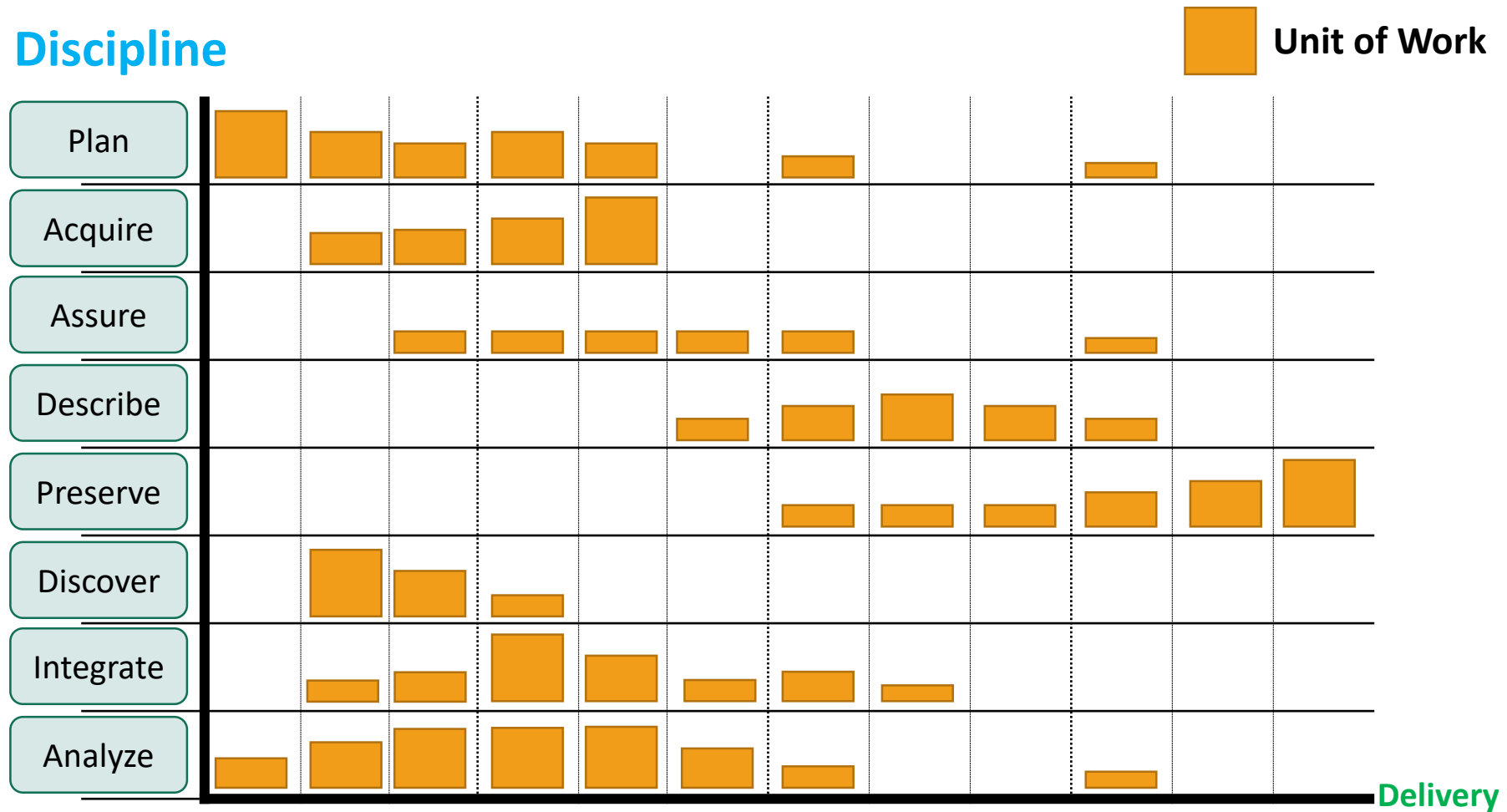
# Two Dimensional Plane!

## Discipline



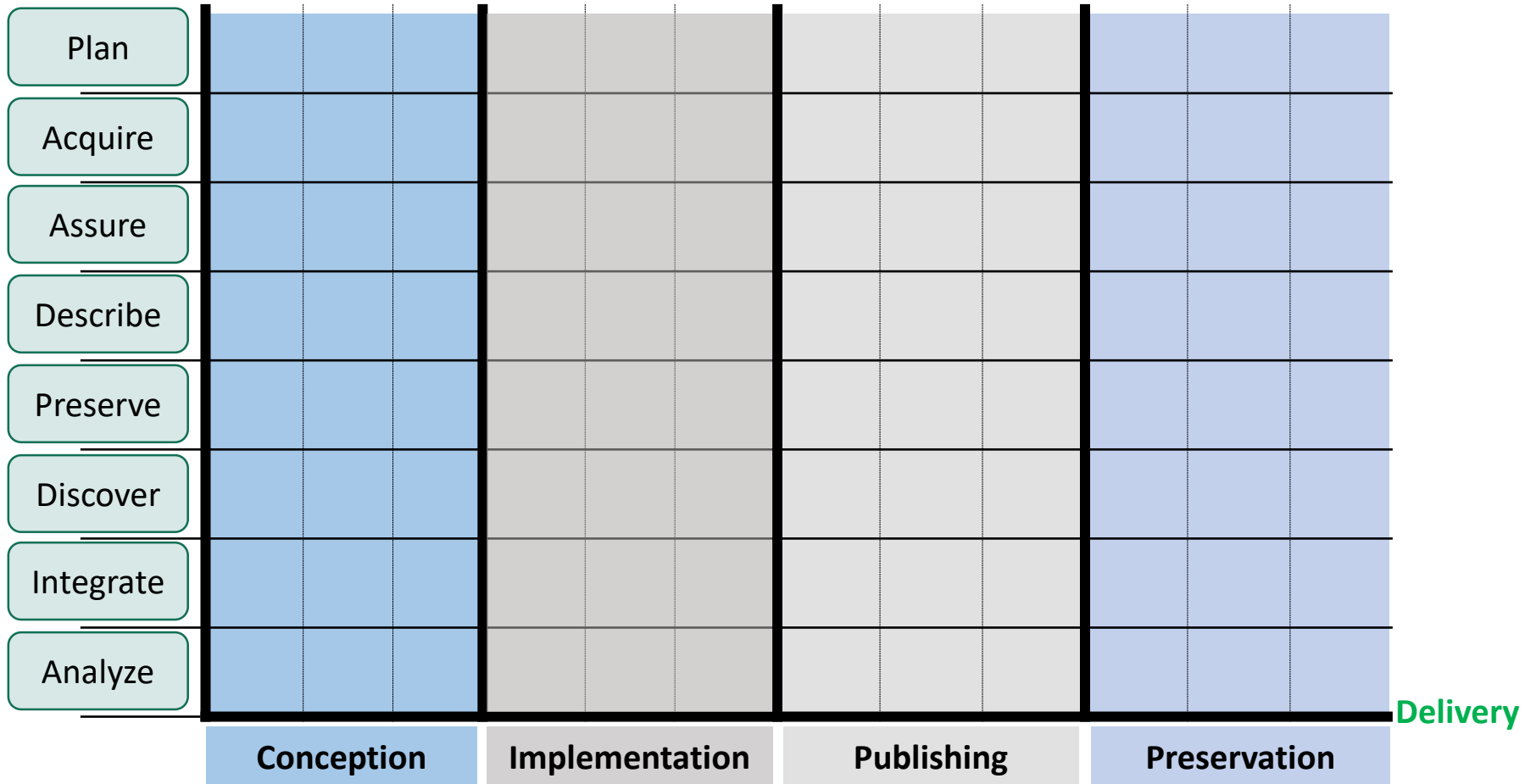
Delivery

# The Two Dimensional Plane!



# The Horizontal Axis: Phases

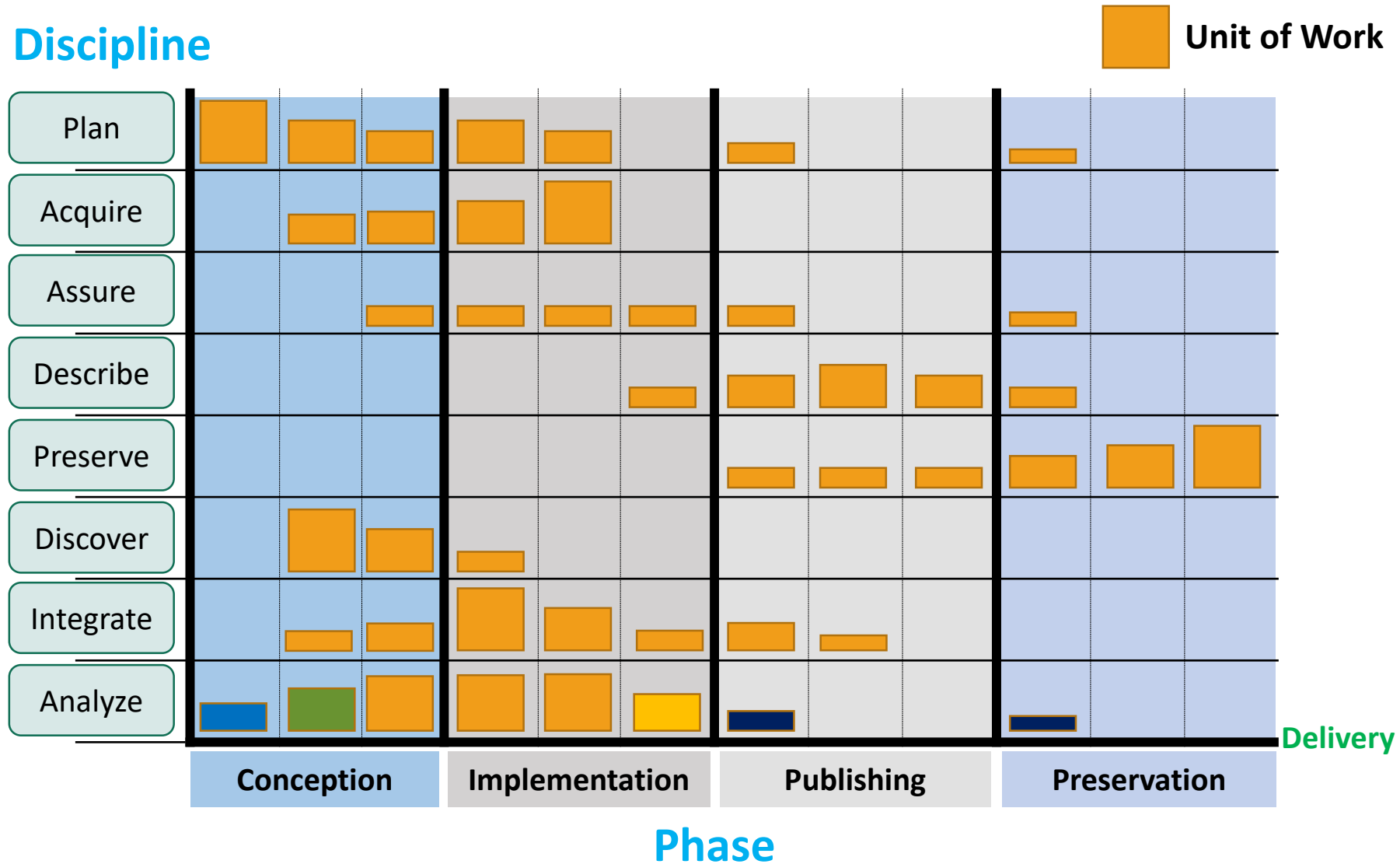
## Discipline



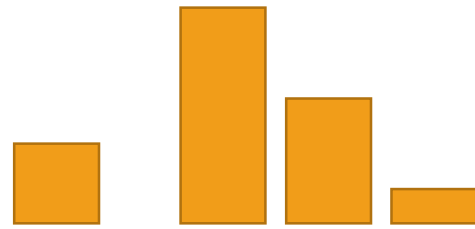
## Phase

Delivery

# JenPlane



# Flexibility and Verity: Activities



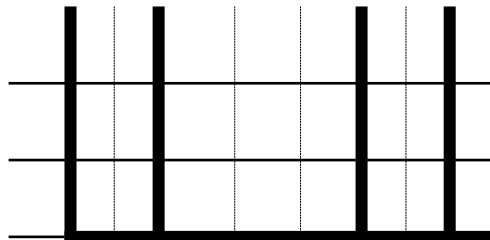
**Height indicates effort**



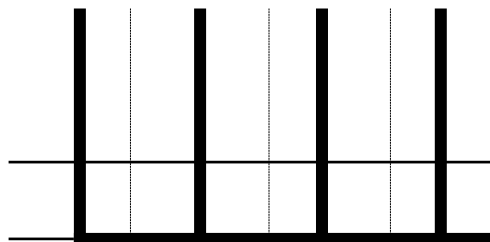
**Width indicates duration**



**Color indicates activity type**

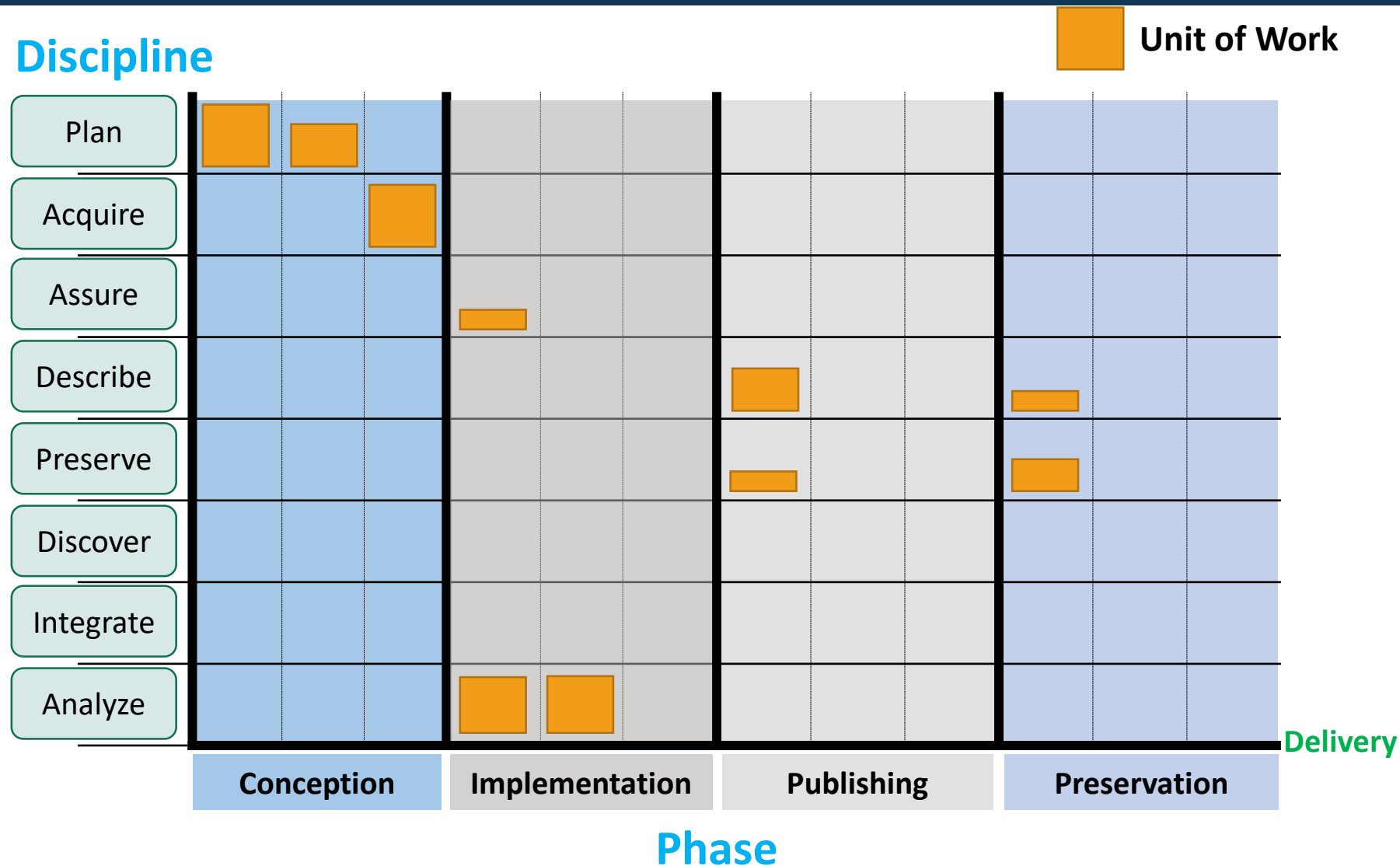


**Phases may have different durations**



**Disciplines may require different amounts of effort**

# Flexibility and Verity: Templates



# Flexibility and Verity: Profiles

- Domain-Specific Settings
  - Special activities
  - Tailored activities
  - Recommendations and guidelines
- Funding Agency recommendations
  - Certain artifacts to be produced
  - Effort/duration guidelines or rules
  - Enforcement of certain activities
  - Base for project appraisal



# Thank You